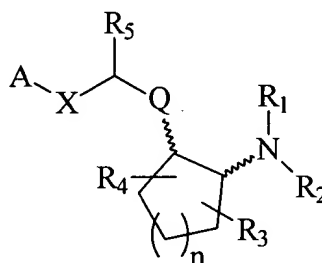


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): A composition comprising a compound of formula (I), or a solvate or pharmaceutically acceptable salt thereof:



(I)

wherein, independently at each occurrence,

n is selected from 1, 3 and 4;

Q is either O (oxygen) or  $-\text{O}-\text{C}(\text{O})-$ ;

X is selected from a direct bond,  $-\text{C}(\text{R}_6, \text{R}_{14})-\text{Y}-$ , and  $-\text{C}(\text{R}_{13})=\text{CH}-$ ;

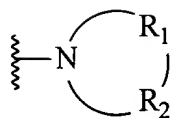
Y is selected from a direct bond, O, S, and  $\text{C}_1-\text{C}_4$ alkylene;

$\text{R}_{13}$  is selected from hydrogen,  $\text{C}_1-\text{C}_6$ alkyl,  $\text{C}_3-\text{C}_8$ cycloalkyl, aryl, and benzyl;

~~$\text{R}_1$  and  $\text{R}_2$  are independently selected from hydrogen,  $\text{C}_1-\text{C}_8$ alkyl,  $\text{C}_3-\text{C}_8$ alkoxyalkyl,  $\text{C}_1-\text{C}_8$ hydroxyalkyl, and  $\text{C}_7-\text{C}_{12}$ aralkyl; or~~

$\text{R}_1$  and  $\text{R}_2$  are independently selected from  $\text{C}_3-\text{C}_8$ alkoxyalkyl,  $\text{C}_1-\text{C}_8$ hydroxyalkyl, and  $\text{C}_7-\text{C}_{12}$ aralkyl; or

$\text{R}_1$  and  $\text{R}_2$ , are when taken together with the nitrogen atom to which they are directly attached in formula (I), to form a ring denoted by formula (II):



(II)

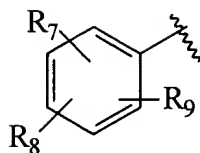
wherein the ring of formula (II) is formed from the nitrogen as shown as well as three to nine additional ring atoms independently selected from carbon, nitrogen, oxygen, and sulfur; where any two adjacent ring atoms may be joined together by single or double bonds, and where any one or more of the additional carbon ring atoms may be substituted with one or two substituents selected from hydrogen, hydroxy, C<sub>1</sub>-C<sub>3</sub>hydroxyalkyl, oxo, C<sub>2</sub>-C<sub>4</sub>acyl, C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>2</sub>-C<sub>4</sub>alkylcarboxy, C<sub>1</sub>-C<sub>3</sub>alkoxy, C<sub>1</sub>-C<sub>20</sub>alkanoyloxy, or may be substituted to form a spiro five- or six-membered heterocyclic ring containing one or two heteroatoms selected from oxygen and sulfur; and any two adjacent additional carbon ring atoms may be fused to a C<sub>3</sub>-C<sub>8</sub>carbocyclic ring, and any one or more of the additional nitrogen ring atoms may be substituted with substituents selected from hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>4</sub>acyl, C<sub>2</sub>-C<sub>4</sub>hydroxyalkyl and C<sub>3</sub>-C<sub>8</sub>alkoxyalkyl; or

R<sub>1</sub> and R<sub>2</sub>, are ~~when~~ taken together with the nitrogen atom to which they are directly attached in formula (I), to ~~may~~ form a bicyclic ring system selected from 3-azabicyclo[3.2.2]nonan-3-yl, 2-aza-bicyclo[2.2.2]octan-2-yl, 3-azabicyclo[3.1.0]-hexan-3-yl, and 3-azabicyclo[3.2.0]-heptan-3-yl;

R<sub>3</sub> and R<sub>4</sub> are independently attached to the cycloalkyl ring shown in formula (I) at other than the 1 and 2 positions and are independently selected from hydrogen, hydroxy, C<sub>1</sub>-C<sub>6</sub>alkyl, and C<sub>1</sub>-C<sub>6</sub>alkoxy, and, when both R<sub>3</sub> and R<sub>4</sub> are attached to the same cycloalkane ring atom, may together form a spiro five- or six-membered heterocyclic ring containing one or two heteroatoms selected from oxygen and sulfur;

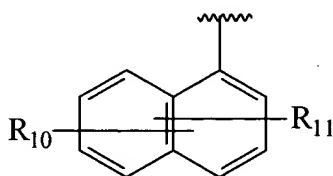
R<sub>5</sub>, R<sub>6</sub> and R<sub>14</sub> are independently selected from hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, aryl and benzyl, or R<sub>6</sub> and R<sub>14</sub>, when taken together with the carbon to which they are attached, may form a spiro C<sub>3</sub>-C<sub>5</sub>cycloalkyl;

A is selected from C<sub>5</sub>-C<sub>12</sub>alkyl, a C<sub>3</sub>-C<sub>13</sub>carbocyclic ring, and ring systems selected from formulae (III), (IV), (V), (VI), (VII) and (VIII):



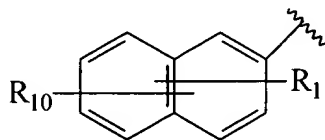
(III)

where  $R_7$ ,  $R_8$  and  $R_9$  are independently selected from bromine, chlorine, fluorine, carboxy, hydrogen, hydroxy, hydroxymethyl, methanesulfonamido, nitro, sulfamyl, trifluoromethyl,  $C_2$ - $C_7$ alkanoyloxy,  $C_1$ - $C_6$ alkyl,  $C_1$ - $C_6$ alkoxy,  $C_2$ - $C_7$ alkoxycarbonyl,  $C_1$ - $C_6$ thioalkyl, aryl and  $N(R_{15}, R_{16})$  where  $R_{15}$  and  $R_{16}$  are independently selected from hydrogen, acetyl, methanesulfonyl, and  $C_1$ - $C_6$ alkyl;



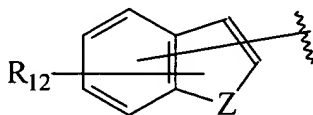
(IV)

and



(V)

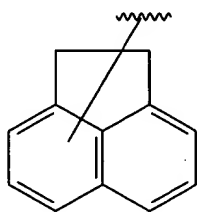
where  $R_{10}$  and  $R_{11}$  are independently selected from bromine, chlorine, fluorine, carboxy, hydrogen, hydroxy, hydroxymethyl, methanesulfonamido, nitro, sulfamyl, trifluoromethyl,  $C_2$ - $C_7$ alkanoyloxy,  $C_1$ - $C_6$ alkyl,  $C_1$ - $C_6$ alkoxy,  $C_2$ - $C_7$ alkoxycarbonyl,  $C_1$ - $C_6$ thioalkyl, and  $N(R_{15}, R_{16})$  where  $R_{15}$  and  $R_{16}$  are independently selected from hydrogen, acetyl, methanesulfonyl, and  $C_1$ - $C_6$ alkyl;



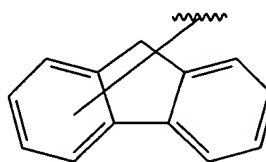
(VI)

where  $R_{12}$  is selected from bromine, chlorine, fluorine, carboxy, hydrogen, hydroxy, hydroxymethyl, methanesulfonamido, nitro, sulfamyl, trifluoromethyl,  $C_2$ - $C_7$ alkanoyloxy,  $C_1$ - $C_6$ alkyl,  $C_1$ - $C_6$ alkoxy,  $C_2$ - $C_7$ alkoxycarbonyl,  $C_1$ - $C_6$ thioalkyl, and  $N(R_{15}, R_{16})$  where  $R_{15}$  and  $R_{16}$

are independently selected from hydrogen, acetyl, methanesulfonyl, and C<sub>1</sub>-C<sub>6</sub>alkyl; and Z is selected from CH, CH<sub>2</sub>, O, N and S, where Z may be directly bonded to "X" as shown in formula (I) when Z is CH or N, or Z may be directly bonded to R<sub>17</sub> when Z is N, and R<sub>17</sub> is selected from hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl, aryl and benzyl;



(VII)



(VIII)

including isolated enantiomeric, diastereomeric and geometric isomers thereof, and mixtures thereof.

Claim 2 (currently amended): A composition comprising a compound ~~or mixture of compounds~~ selected from the group consisting of (1R,2R)-2-(4-Morpholinyl)-1-(2-naphthalenethoxy)cyclopentane; (1S,2S)-2-(4-Morpholinyl)-1-(2-naphthalenethoxy)cyclopentane; ~~mixtures of (1R,2R)-2-(4-Morpholinyl)-1-(2-naphthalenethoxy)cyclopentane and (1S,2S)-2-(4-Morpholinyl)-1-(2-naphthalenethoxy)cyclopentane;~~ (1R,2R)-2-(3-Ketopyrrolidinyl)-1-(2,6-dichlorophenethoxy)cyclopentane; (1S, 2S)-2-(3-Ketopyrrolidinyl)-1-(2,6-dichlorophenethoxy)cyclopentane; ~~mixtures of (1R,2R)-2-(3-Ketopyrrolidinyl)-1-(2,6-dichlorophenethoxy)cyclopentane and (1S, 2S)-2-(3-Ketopyrrolidinyl)-1-(2,6-dichlorophenethoxy)cyclopentane;~~ and pharmaceutically acceptable salts and solvates of any of the foregoing; or

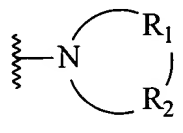
a mixture of compounds selected from the group consisting of a mixture of (1R,2R)-2-(4-Morpholinyl)-1-(2-naphthalenethoxy)cyclopentane and (1S,2S)-2-(4-Morpholinyl)-1-(2-naphthalenethoxy)cyclopentane, a mixture of (1R,2R)-2-(3-Ketopyrrolidinyl)-1-(2,6-dichlorophenethoxy)cyclopentane and (1S, 2S)-2-(3-Ketopyrrolidinyl)-1-(2,6-

dichlorophenethoxy)cyclopentane; and a mixture of pharmaceutically acceptable salts and solvates of any of the foregoing.

Claim 3 (currently amended): ~~A composition according to any one of claims 1 or 2 further comprising a pharmaceutically acceptable carrier, excipient or diluent.~~

The composition of claim 1,

wherein R<sub>1</sub> and R<sub>2</sub>, are taken together with the nitrogen atom to which they are directly attached in formula (I), to form a ring denoted by formula (II):



(II)

wherein the ring of formula (II) is formed from the nitrogen as shown as well as three to nine additional ring atoms independently selected from carbon, nitrogen, oxygen, and sulfur; where any two adjacent ring atoms may be joined together by single or double bonds, and where any one or more of the additional carbon ring atoms may be substituted with one or two substituents selected from hydrogen, hydroxy, C<sub>1</sub>-C<sub>3</sub>hydroxyalkyl, oxo, C<sub>2</sub>-C<sub>4</sub>acyl, C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>2</sub>-C<sub>4</sub>alkylcarboxy, C<sub>1</sub>-C<sub>3</sub>alkoxy, C<sub>1</sub>-C<sub>20</sub>alkanoyloxy, or may be substituted to form a spiro five- or six-membered heterocyclic ring containing one or two heteroatoms selected from oxygen and sulfur; and any two adjacent additional carbon ring atoms may be fused to a C<sub>3</sub>-C<sub>8</sub>carbocyclic ring, and any one or more of the additional nitrogen ring atoms may be substituted with substituents selected from hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>4</sub>acyl, C<sub>2</sub>-C<sub>4</sub>hydroxyalkyl and C<sub>3</sub>-C<sub>8</sub>alkoxyalkyl; or

R<sub>1</sub> and R<sub>2</sub>, are taken together with the nitrogen atom to which they are directly attached in formula (I), to form a bicyclic ring system selected from 3-azabicyclo[3.2.2]nonan-3-yl, 2-azabicyclo[2.2.2]octan-2-yl, 3-azabicyclo[3.1.0]-hexan-3-yl, and 3-azabicyclo[3.2.0]-heptan-3-yl.

Claim 4 (cancelled)

Claim 5 (currently amended): A method for treating arrhythmia in a warm-blooded animal

comprising administering to a warm-blooded animal in need of such treatment a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to any one of claims 1-3.~~

Claim 6 (currently amended): A method for modulating ion channel activity in a warm-blooded animal comprising administering to a warm-blooded animal in need of ion channel activity modulation a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to any one of claims 1-3.~~

Claim 7 (currently amended): A method for modulating ion channel activity in vitro comprising contacting an in vitro ion channel with a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to any one of claims 1-3.~~

Claim 8 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat diseases of the central nervous system in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 9 (currently amended): A method for treating diseases of the central nervous system in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 8.~~

Claim 10 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat convulsion in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 11 (currently amended): A method for treating convulsion in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 10.~~

Claim 12 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat epileptic spasms in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 13 (currently amended): A method for treating epileptic spasms in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 12.~~

Claim 14 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat depression, anxiety or schizophrenia, in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 15 (currently amended): A method for treating depression, anxiety or schizophrenia, in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 14.~~

Claim 16 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to

claim 2 ~~composition according to claims 1 or 2~~ effective to treat Parkinson's disease in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 17 (currently amended): A method for treating Parkinson's disease in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 16~~.

Claim 18 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat respiratory disorders in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 19 (currently amended): A method for treating respiratory disorders in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 18~~.

Claim 20 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat cystic fibrosis in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 21 (currently amended): A method for treating cystic fibrosis in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition~~



according to claim 20.

Claim 22 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat asthma in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 23 (currently amended): A method for treating asthma in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 22~~.

Claim 24 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat a cough in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 25 (currently amended): A method for treating a cough in a warm-blooded animal comprising administration of a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 24~~.

Claim 26 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat inflammation in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 27 (currently amended): A method for treating inflammation in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition~~

according to claim 26.

Claim 28 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat arthritis in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 29 (currently amended): A method for treating arthritis in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 28~~.

Claim 30 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat allergies in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 31 (currently amended): A method for treating allergies in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 30~~.

Claim 32 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat gastrointestinal disorders in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 33 (currently amended): A method for treating gastrointestinal disorders in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according~~

~~to claim 32.~~

Claim 34 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat urinary incontinence in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 35 (currently amended): A method for treating urinary incontinence in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 34.~~

Claim 36 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat irritable bowel syndrome in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 37 (currently amended): A method for treating irritable bowel syndrome in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 36.~~

Claim 38 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat cardiovascular diseases in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 39 (currently amended): A method for treating cardiovascular diseases in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 38.~~

Claim 40 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat cerebral or myocardial ischemias in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 41 (currently amended): A method for treating cerebral or myocardial ischemias in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 40.~~

Claim 42 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat hypertension in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 43 (currently amended): A method for treating hypertension in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 42.~~

Claim 44 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to

claim 2 composition according to claims 1 or 2 effective to treat long-QT syndrome in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 45 (currently amended): A method for treating long-QT syndrome in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 44.~~

Claim 46 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat stroke in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 47 (currently amended): A method for treating stroke in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 46.~~

Claim 48 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat migraine in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 49 (currently amended): A method for treating migraine in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 48.~~

Claim 50 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to

claim 2 ~~composition according to claims 1 or 2~~ effective to treat ophthalmic diseases in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 51 (currently amended): A method for treating ophthalmic diseases in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 50.~~

Claim 52 (currently amended): A pharmaceutical composition comprising an amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat diabetes mellitus in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 53 (currently amended): A method for treating diabetes mellitus in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a composition according to claim 1 or 3 or a composition or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 52.~~

Claim 54 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat myopathies in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 55 (currently amended): A method for treating myopathies in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 54.~~

Claim 56 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat Becker's myotonia in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 57 (currently amended): A method for treating Becker's myotonia in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 56.~~

Claim 58 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat myasthenia gravis in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 59 (currently amended): A method for treating myasthenia gravis in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 58.~~

Claim 60 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat paramyotonia congenita in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 61 (currently amended): A method for treating paramyotonia congenita in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 60.~~

Claim 62 (currently amended): A pharmaceutical composition comprising an amount of a

compound according to claim 1 or a compound or mixture of compounds according to claim 2  
~~composition according to claims 1 or 2~~ effective to treat malignant hyperthermia in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 63 (currently amended): A method for treating malignant hyperthermia in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 62~~.

Claim 64 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat hyperkalemic periodic paralysis in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 65 (currently amended): A method for treating hyperkalemic periodic paralysis in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 64~~.

Claim 66 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat Thomsen's myotonia in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 67 (currently amended): A method for treating Thomsen's myotonia in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according~~



~~to claim 66.~~

Claim 68 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat autoimmune disorders in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 69 (currently amended): A method for treating autoimmune disorders in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 68.~~

Claim 70 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat graft rejection in organ transplantation or bone marrow transplantation in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 71 (currently amended): A method for treating graft rejection in organ transplantation or bone marrow transplantation in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 70.~~

Claim 72 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to produce local analgesia or anesthesia in a warm-blooded animal in need thereof, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 73 (currently amended): A method for producing local analgesia or anesthesia in a warm-blooded animal in need thereof comprising administering to a warm-blooded animal in need

thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 72.~~

Claim 74 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat heart failure in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 75 (currently amended): A method for treating heart failure in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 74.~~

Claim 76 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat hypotension in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 77 (currently amended): A method for treating hypotension in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 76.~~

Claim 78 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat Alzheimer's disease in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 79 (currently amended): A method for treating Alzheimer's disease in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of

~~compounds according to claim 2 composition according to claims 1 or 2 or a composition according to claim 78.~~

Claim 80 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat dementia in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 81 (currently amended): A method for treating dementia in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 80.~~

Claim 82 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to treat alopecia in a warm-blooded animal in need of the treatment, and a pharmaceutically acceptable carrier, diluent, or excipient.

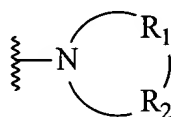
Claim 83 (currently amended): A method for treating alopecia in a warm-blooded animal comprising administering to a warm-blooded animal in need thereof a therapeutically effective amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 82.~~

Claim 84 (currently amended): A pharmaceutical composition comprising an amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2~~ effective to enhance libido in a warm-blooded animal in need thereof, and a pharmaceutically acceptable carrier, diluent, or excipient.

Claim 85 (currently amended): A method for enhancing libido in a warm-blooded animal in need thereof comprising administering to a warm-blooded animal in need thereof an enhancing amount of a compound according to claim 1 or a compound or mixture of compounds according to claim 2 ~~composition according to claims 1 or 2 or a composition according to claim 84.~~

Claim 86 (new): A composition according to claim 1 or 3 or a compound or mixture of compounds according to claim 2, and a pharmaceutically acceptable carrier, excipient or diluent.

Claim 87 (new): The compound according to claim 1 wherein  $R_1$  and  $R_2$  are taken together with the nitrogen atom to which they are directly attached in formula (I) to form a ring denoted by formula (II):



(II)

wherein the ring of formula (II) is formed from the nitrogen as shown as well as three to nine additional ring atoms independently selected from carbon, nitrogen, oxygen, and sulfur; where any two adjacent ring atoms may be joined together by single or double bonds, and where any one or more of the additional carbon ring atoms may be substituted with one or two substituents selected from hydrogen, hydroxy,  $C_1$ - $C_3$ hydroxyalkyl, oxo,  $C_2$ - $C_4$ acyl,  $C_1$ - $C_3$ alkyl,  $C_2$ - $C_4$ alkylcarboxy,  $C_1$ - $C_3$ alkoxy, and  $C_1$ - $C_{20}$ alkanoyloxy.

Claim 88 (new): The compound according to claim 87 wherein the ring of formula II is a substituted or unsubstituted morpholinyl group or a substituted or unsubstituted ketopyrrolidinyl group, wherein in the substituted groups any one or more of the carbon ring atoms in the ring may be substituted with one or two substituents selected from hydrogen, hydroxy,  $C_1$ - $C_3$ hydroxyalkyl, oxo,  $C_2$ - $C_4$ acyl,  $C_1$ - $C_3$ alkyl,  $C_2$ - $C_4$ alkylcarboxy,  $C_1$ - $C_3$ alkoxy, and  $C_1$ - $C_{20}$ alkanoyloxy.

Claim 89 (new): The compound according to claim 87 wherein the ring of formula II is a saturated ring.